

524,188

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



Rec'd PCT/PTO 10 FEB 2005



(43) International Publication Date
26 February 2004 (26.02.2004)

PCT

(10) International Publication Number
WO 2004/017617 A1

- (51) International Patent Classification⁷: **H04M 3/16**
- (21) International Application Number:
PCT/US2003/025254
- (22) International Filing Date: 13 August 2003 (13.08.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/403,495 14 August 2002 (14.08.2002) US
- (71) Applicant (for all designated States except US): **THOMSON LICENSING S.A.** [FR/FR]; 46, Quai A. Le Gallo, F-92648 Boulogne (FR).
- (71) Applicant and
(72) Inventor: **ZHANG, Junbiao** [CN/US]; 20 Jenna Drive, Bridgewater, NJ 08807 (US).
- (74) Agents: **TRIPOLI, Joseph, S. et al.**; c/o Thomson Licensing Inc., Two Independence Way, Suite 200, Princeton, NJ 08540 (US).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: SESSION KEY MANAGEMENT FOR PUBLIC WIRELESS LAN SUPPORTING MULTIPLE VIRTUAL OPERATORS

(57) Abstract: A method and apparatus for managing a session key for allowing a mobile terminal to access a wireless local area network (WLAN). The invention provides for establishing a first secure channel between an access point and a virtual operator, and suggesting a session key to the virtual operator from the access point. A second secure channel is established between the virtual operator and a user, and the session key is sent to the user via the second secure channel upon successful user authentication. The mobile terminal accesses the WLAN using the session key.

WO 2004/017617 A1